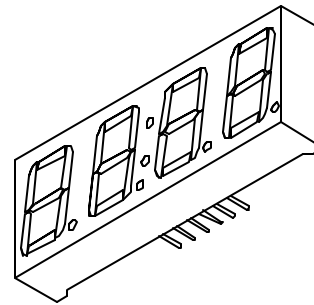
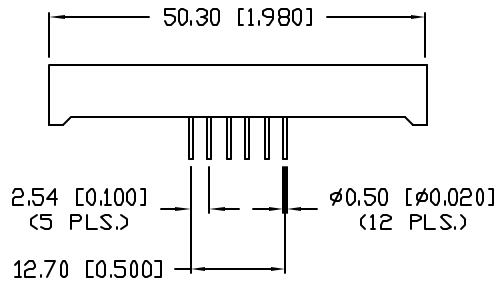
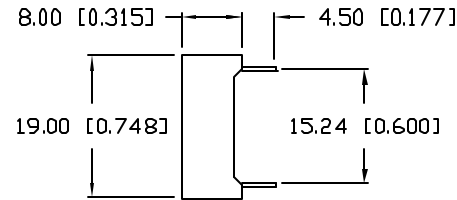
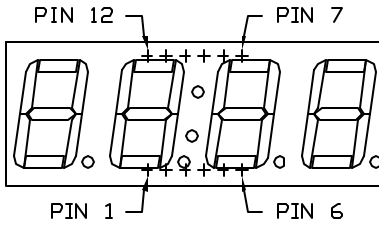


UNCONTROLLED DOCUMENT

PART NUMBER  
LDC-N5614NI-SI

REV.  
A

| REV. | E.C.N. NUMBER AND REVISION COMMENTS | DATE     |
|------|-------------------------------------|----------|
| A    | E.C.N. #11482.                      | 03.03.08 |



ELECTRO-OPTICAL CHARACTERISTICS  $T_A=25^{\circ}\text{C}$   $I_f=10\text{mA}$

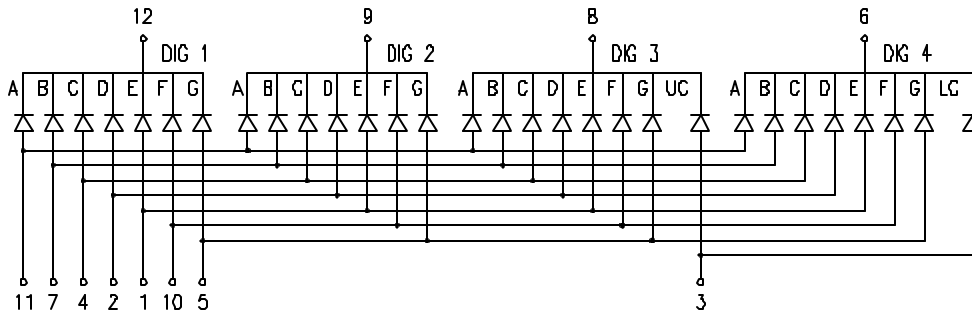
| PARAMETER       | MIN                  | TYP   | MAX | UNITS          | TEST COND            |
|-----------------|----------------------|-------|-----|----------------|----------------------|
| PEAK WAVELENGTH |                      | 636   |     | nm             |                      |
| FORWARD VOLTAGE |                      | 2.0   | 2.5 | $V_f$          |                      |
| REVERSE VOLTAGE | 5.0                  |       |     | $V_r$          | $I_r=100\mu\text{A}$ |
| AXIAL INTENSITY |                      | 13000 |     | $\mu\text{cd}$ | $I_f=10\text{mA}$    |
| EMITTED COLOR:  | RED                  |       |     |                |                      |
| FACE COLOR:     | GRAY                 |       |     |                |                      |
| SEGMENT COLOR:  | MILKY WHITE DIFFUSED |       |     |                |                      |

LIMITS OF SAFE OPERATION AT 25°C PER CHIP

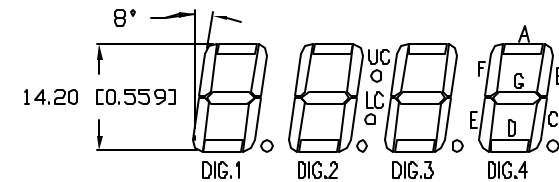
| PARAMETER             | MAX        | UNITS |
|-----------------------|------------|-------|
| PEAK FORWARD CURRENT* | 80         | mA    |
| STEADY CURRENT        | 20         | mA    |
| POWER DISSIPATION     | 75         | mW    |
| DERATE FROM 25°C      | -1.2       | mW/°C |
| OPERATING TEMP.       | -25 TO +85 | °C    |
| STORAGE TEMP.         | -30 TO +85 | °C    |
| SOLDERING TEMP.       | +260       | °C    |
| 2.0mm FROM BODY       | 3 SEC. MAX |       |

\*  $t < 10\mu\text{s}$

COMMON CATHODE



DIGIT DETAIL



\*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), XX=±0.5 (±0.020), XXX=±0.25 (±0.010), XXXX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030). MIN.= +DECIMAL PRECISION -0.00 MAX.= +0.00 -DECIMAL PRECISION

|   |                               |
|---|-------------------------------|
| REV.<br>A   | PART NUMBER<br>LDC-N5614NI-SI |
| 0.56" QUAD DIGIT, SEVEN SEGMENT, LED CLOCK DISPLAY,<br>636nm RED CHIPS, GRAY FACE WITH WHITE SEGMENTS,<br>COMMON CATHODE, 12 PINS, MULTIPLEXED. |                               |

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**RELIABILITY NOTE**  
OUR MANY YEARS OF EXPERIENCE DATA ACCUMULATION INDICATE THAT SOLDER HEAT IS A MAJOR CAUSE OF EARLY AND FUTURE FAILURE. PLEASE PAY ATTENTION TO YOUR SOLDERING PROCESS.

**LUMEX**  
290 E. HELEN ROAD  
PALATINE, IL 60067-6976  
PHONE: +1.847.359.2790  
US WEB: www.lumex.com  
TW WEB: www.lumex.com.tw

|                 |             |              |               |
|-----------------|-------------|--------------|---------------|
| DRAWN BY:<br>BC | CHECKED BY: | APPROVED BY: | DATE: 7.29.03 |
|                 |             |              | PAGE: 1 OF 1  |
|                 |             |              | SCALE: N/A    |